

FIGURE 1
SHEET 1 OF 9

Labeling of Synthesis Beads with Chemical Tags

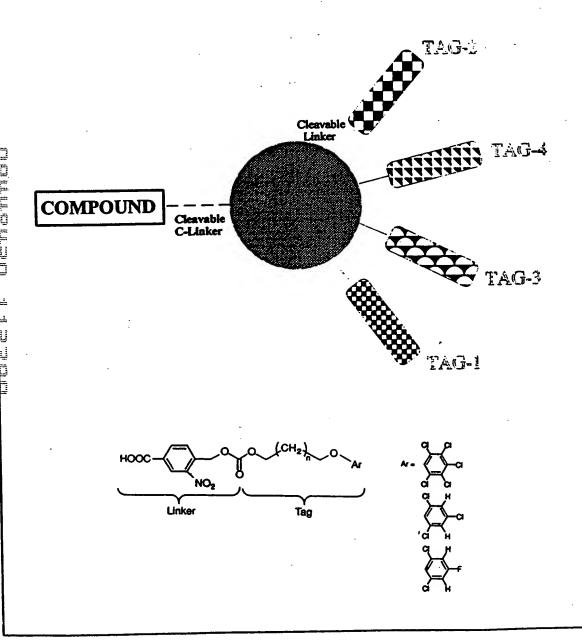


FIGURE 2

SHEET 2 OF 9

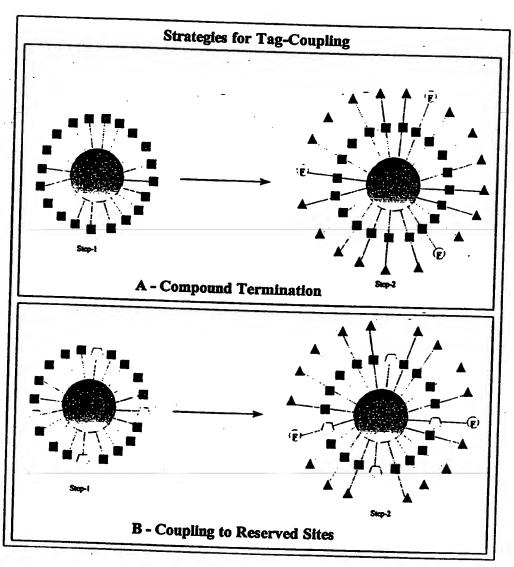
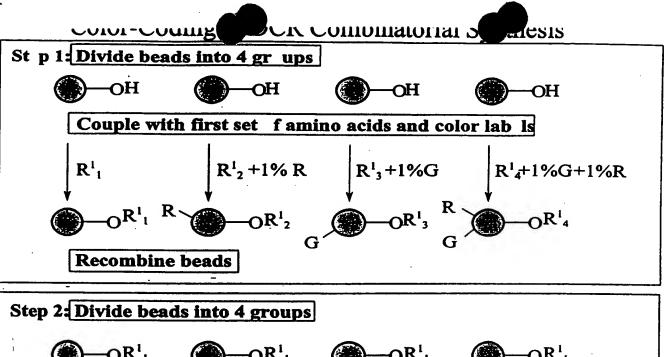


FIGURE 3

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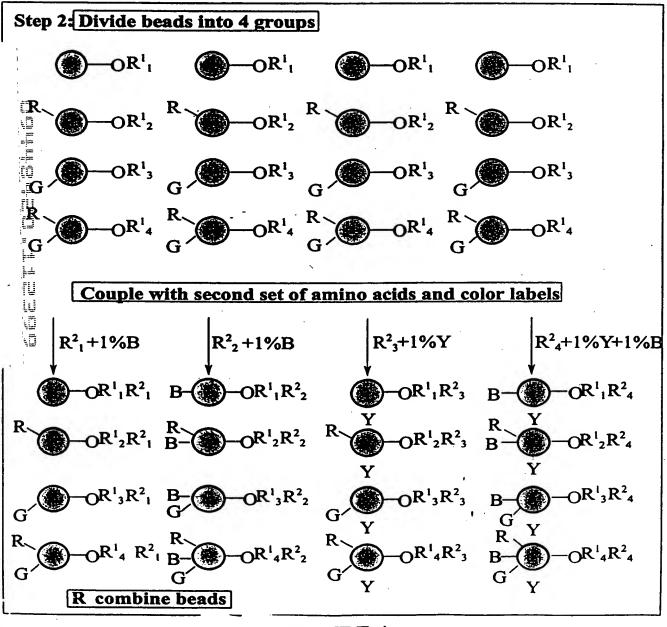
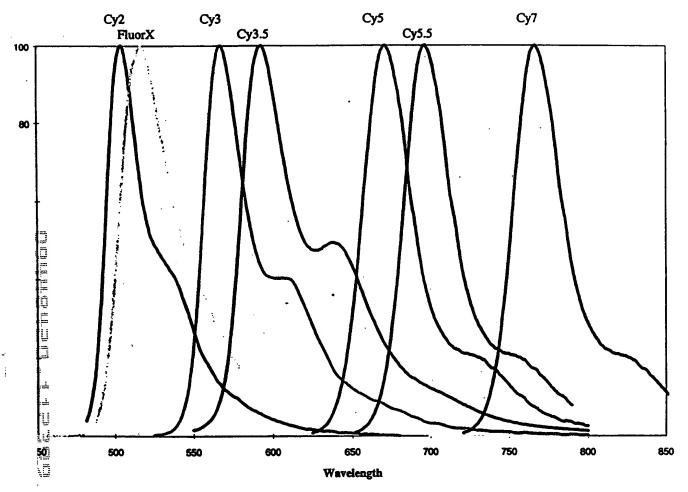


FIGURE 4

Emission Spectra of the CyDye Fluorescent Dyes



| Fluorophore | Color Of Fluorescence | Absorption Maximum (nm) | Fluorescence Maximum (nm) | Extinction Coefficient (M ⁻¹ cm ⁻¹) | Quantum Yield for protein conjugates | Formula Weight (daltons) | |
|-------------|-----------------------|---------------------------|-----------------------------|--|--------------------------------------|--------------------------|----------|
| | | | | | | Bisfnc. | Monofne. |
| Cy2 | | 489 nm | 506 nm | ~ 150,000 | >0.12 | 896.95 | 713.78 |
| Су3 | Orange | 550 nm | 570 nm | 150,000 | >0.15 ' | 949.11 | 765.95 |
| Cy3.5 | Scarlet | | 596 nm | 150,000 | >0.15 | 1285.54 | 1102.37 |
| Cy5 | Far-Red | 649 nm | 670 nm | 250,000 | >0.28 | 975.15 | 791.99 |
| Cy5.5 | Near IR | 675 mm | 694 nm | 250,000 | >0.28 | 1311.58 | 1128.41 |
| Cy7 | Near IR | 743 nm | 767 nm | ~ 250,000 | ~ 0.28 | 1001.19 | 818.02 |
| FluorX | Green | 494 nm | 520 nm | 68,000 | 0.3 | | 586.6 |

FIGURE 5

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Multi-Agent Diagnostic Assay In Bead-Array Format Transparent Cover Beads in Buffer Side View Planar Substrate Not to Scale RandomBead Array (5 Colors) Top View

FIGURE 6

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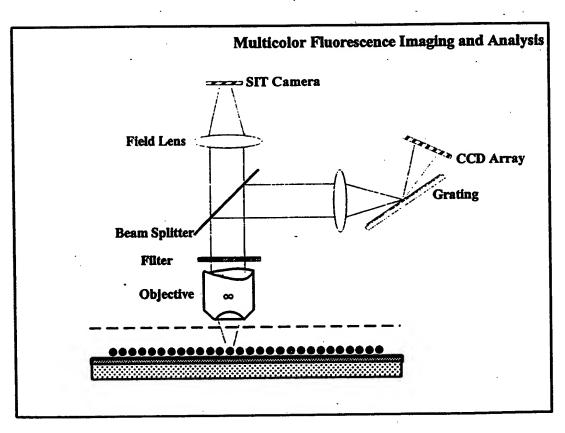


FIGURE 7

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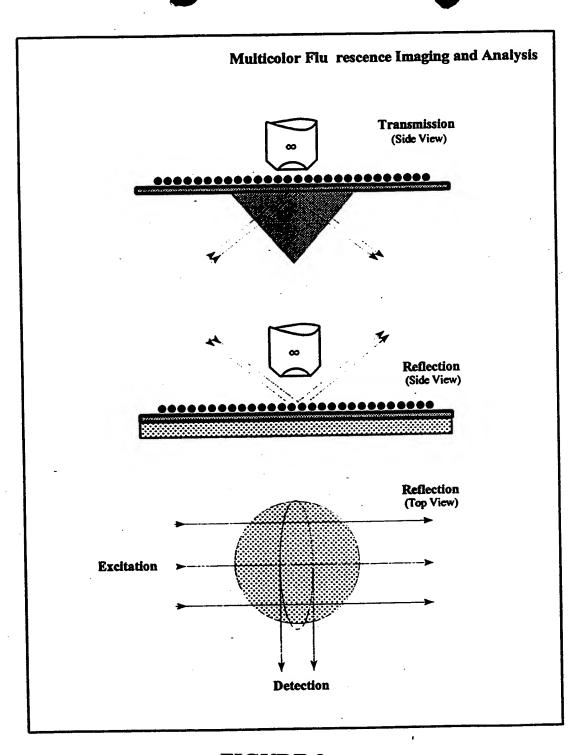
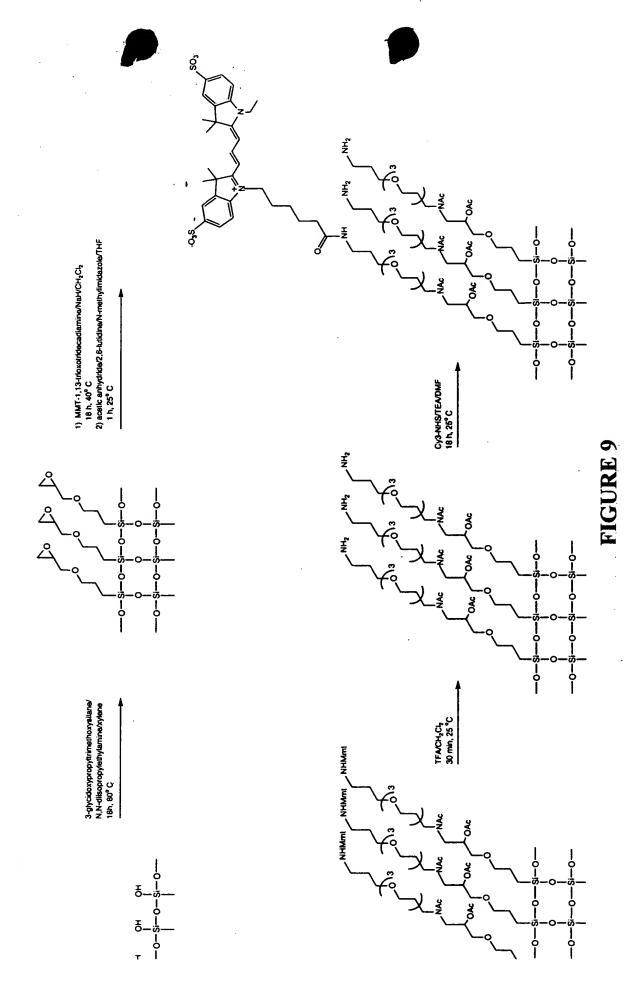


FIGURE 8
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